

## WebKORIGEN Comments 290607

### *Comments from 28/06/07*

- 1) The results table looks terrible. Use similar format as the original VB program shall be used: one table with two columns for the top nuclides (Nuclides and Results), one for the top elements (Elements and Results), and one for the totals. All columns shall have the ordering feature.
- 2) The icon shall be change to a “reactor” icon.
- 3) Why is there a refresh and reload of the page every time one changes tabs? It seems that there is one unnecessary reload.

### *New Comments*

- 4) Step2/Electrical efficiency: when updating why is there a full reload of the page? Can't we just use AJAX and reload only the label displaying the electrical power.
- 5) Step2/Calculation parameters: changing the unit of time or one of the parameter. has an influence on the specific power, thermal power and electrical power (same as changing value in the reactor parameters). Maybe it would be wise to have these three labels (specific power, thermal power and electrical power) all together with the update button separate from the input text-boxes. Or is there a way to update the label “on the fly”?
- 6) Step3/Mode of calculation: put the burnup on a new line
- 7) Step 3/Operation parameter: “heavy metal mass” is missing, instead 2 “s”s appear!
- 8) Step3/Selected outputs: remove the selected outputs (it comes from a old version, not required anymore).
- 9) Step3/Fuel target: add U type, and Pufiss/(Pu+U) – when used - as in the VB module.
- 10) Mode1/Power/Results/Graph/kinf: (shall be as in the VB module)
  - y-axis label: “ $k_{inf}$  for single fuel batch”
  - legend missing
  - plot for the kinf graph shall be in squatter (no line)
- 11) Graph (valid for all graphs in the Nucleonica package)/Download: add EPS, PNG and SVG format.
- 12) (all mode)/Step4/Graphs/Plot Nuclides: options to plot selected nuclides (such as in the decay module) shall be implemented.
- 13) (all mode)/Step4/Graphs/Plot Elements: options to plot selected elements (such as in the decay module) shall be implemented.
- 14) Mode1/Flux/Step2: replace “Choose target fuel” by “Choose spectrum” and add the “Choose target nuclide” such as in original VB module (see fig. below).

- 15) Mode1/Flux/Step2/Initial composition: when changing the element, the mass selection doesn't adjust to the new selected element and thus user cannot access proper nuclide mass.
- 16) Mode1/Flux/Step3/Operation Parameter: remove "No. of cycle", add "Mass of nuclide" such as in original VB module.
- 17) Mode1/Flux/Step4: remove the kinf graph option – it's not available for the Flux operation mode.
- 18) Mode2/Step2/Initial nuclide for decay: when changing the element, the mass selection doesn't adjust to the new selected element and thus user cannot access proper nuclide mass. (same as point 15)
- 19) Mode2/Step3: Operation Parameter: add "Mass of nuclide" such as in original VB module. No need for box, label is enough such as other summary.
- 20) Mode 3/Step2: Replace "Fuel decay storage time:" with "Fuel decay time after discharge:".
- 21) Mode3-4/Step4: replace "Neutron emission rate" with "Neutron emission rate from ( $\alpha$ ,n) and spontaneous fission".
- 22) Mode3-4/Step4: replace "MeV/" with " $\gamma$ /s" for gamma rates.  
Mode3-4/Step4/Plot Gammas & plot Neutrons: graphs look terrible.
  - Refer to the VB module in order to design graphs.
  - Exact energy bin values shall be given below the bars.
  - Results are given as bins thus no need for ticks except for the given bin average energy.
- 23) Mode4/Step2: unit of "Decay time after reprocessing:" is not an option for the user but is automatically selected with the user choice of the "Cooling time before reprocessing:" unit (see VB module).
- 24) All mode/Step4: Administrators are able to download the log file (not available for other users). This option shall be available for user on request (such as the RDD module).

- 25) Mode4/Step4/Plot Nuclides & Plot Total: auto scale is not working properly.
- 26) All modes/Step4: add a "Plot Elements" option.
- 27) All mode/step4: time of the given results shall be given (in the VB module it is the text property of the result window).